

**Notice of Allowability**

Application No.

10/758,257

Applicant(s)

CAYROU ET AL.

Examiner

Dean O. Takaoka

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment dated November 21, 2005.
2. ☒ The allowed claim(s) is/are 1-3 and 6-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 6/10/05.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                 |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>1/23/06</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                        |
|   | 9. <input type="checkbox"/> Other _____.  |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John H. Mion on January 23, 2006.

Amend claim 1 and delete claim 4:

1. (Currently amended): A single-pole double-throw switch comprising an input line portion and two output line portions connected to said input line portion at a branch point and defining with said input line portion two propagation channels for electromagnetic signals reaching said branch point via said input line portion, wherein each output line portion includes an identical two-state electronic component constituting either a substantially open circuit or a substantially short circuit as a function of the application of an appropriate common, same command, said component being always in one of said two states in the absence of said common, same command, and wherein both said two identical electronic components are always simultaneously in a same one of said two states, and are disposed in series and in parallel with said two output line portions, respectively, said switch having an asymmetrical structure, said two propagation channels differing in their configuration and/or in the parity of their electrical length, expressed in quarter-wavelengths, between said components and said branch

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point, so that, regardless of said same state, said open circuit or said short circuit, of said components, one of said two channels always is open for electromagnetic signals and the other channel always is closed for electromagnetic signals,

wherein one of said electronic components is disposed in series with one of said two output line portions, and the other of said electronic components is disposed in parallel with the other of said output line portions and the following conditions are satisfied:

- LAB must be equal to an integer multiple of a half-wavelength;
- LAC must be equal to an odd integer multiple of a quarter-wavelength;
- LCD must be equal to an integer multiple of a half-wavelength;

where:

- A is the branch point between input line portion/output line portions;
- B is the input point of series component;
- C is the branch point between output line portion/shunt line portion at level of the line portion comprising said parallel component; and;
- D is the input point of said parallel component.

### ***Allowable Subject Matter***

Claims 1 – 3 and 6 – 8 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record and in particular, Weigand shows branch switches (i.e. Tx and Rx) comprising series and parallel switches, further comprising a single control (18)

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to all switches but does not show, teach or suggest at least the limitations of the independent claim where the electrical length between the branch point and switch in the series branch is equal to an integer of half-wavelength and/or where the electrical length between the connection point of the parallel switch and the branch point is equal to an integer multiple of a half-wavelength, nor would it be obvious to combine the prior art of record thus the claims are allowable.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Noguchi shows a switch circuit comprising series and parallel FET switches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean O. Takaoka whose telephone number is (571) 272-1772. The examiner can normally be reached on 8:30a - 5:00p Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Don J. Hada". The signature is fluid and cursive, with the first name "Don" and last name "Hada" clearly distinguishable.

dot

January 23, 2006